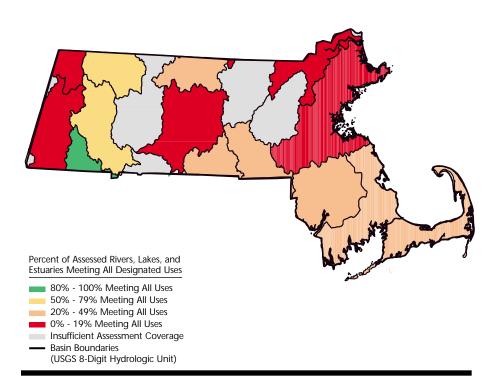
Massachusetts



For a copy of the Massachusetts 1998 305(b) report, contact:

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Surface Water Quality

More than half of the 1,495 river miles assessed by Massachusetts now support aquatic life, swimming, and boating uses, although half of the swimmable miles still experience at least intermittent problems. Twenty-five years ago, swimming and boating in most of these waters would have been unthinkable. The completion of river cleanup will require targeting various sources of pollution, primarily nonpoint source pollution from stormwater runoff and combined sewer overflows, and toxic contamination in sediments (largely historical).

Over a quarter (28%) of the assessed lake acreage, excluding

Quabbin Reservoir, fully supports all beneficial uses. The causes of non-support include introductions of nonnative species, excessive growth of aquatic plants, and excess metals. The sources of these stressors are largely unknown, although non-point sources, including stormwater runoff and onsite wastewater systems, are largely suspected.

Massachusetts' marine waters lag behind its rivers in improvement. Only 32% of the assessed waters fully support all their uses. However, all the major urban areas along the coast either have initiated or are planning cleanup efforts. Foremost among these is a massive project to clean up Boston Harbor.

Ground Water Quality

Organic chemical contaminants have been detected in at least 245 ground water suppy wells (22% of reporting sources). Three percent have at least one exceedance of the MCL. Other contaminants include metals, chlorides, bacteria, inorganic chemicals, radiation, nutrients, turbidity, and pesticides. Since 1983, Massachusetts has required permits for all industrial discharges into ground waters and sanitary wastewater discharges of 15,000 gallons or more per day. The permits require varying degrees of wastewater treatment based on the quality and use of the receiving ground water. Additional controls are needed to eliminate contamination from septic systems and sludge disposal.

Programs to Restore Water Quality

Wastewater treatment plant construction has resulted in significant improvements in water quality,

but \$7 billion of unfunded wastewater needs remain. The Nonpoint Source Control Program has implemented over 60 projects to provide technical assistance, implement best management practices, and educate the public. The state has also adopted a combined sewer overflow policy that provides engineering targets for cleanup and is currently addressing several CSO abatement projects.

Programs to Assess Water Quality

The Department of Environmental Protection (DEP) adopted a watershed planning approach to coordinate stream monitoring with wastewater discharge permitting, water withdrawal permitting, and nonpoint source control on a 5-year rotating schedule. The DEP is also adapting its monitoring strategies to provide information on nonpoint source pollution. For example, DEP will focus more on wet weather sampling and biological monitoring and less on chemical monitoring during dry periods in order to gain a more complete understanding of the integrity of water resources.

The state is developing biological assessment methods for coastal wetlands. The state is also partnering with two watershed organizations to train volunteers to monitor salt marshes.

- Not reported in a quantifiable format or unknown.
- ^a A subset of Massachusetts's designated uses appear in this figure. Refer to the state's 305(b) report for a full description of the state's uses.
- blincludes nonperennial streams that dry up and do not flow all year.
- ^c Including Quabbin Reservoir (25,000 acres).
- d Includes "marine waters" harbors, bays, estuaries, and open ocean waters.

Individual Use Support in Massachusetts Percent Poor Not Good Good Fair (Partially Attainable (Fully (Not Designated Use^a Supporting) Supporting) Supporting) Rivers and Streams (Total Miles = 8,229)b Total Miles Assessed 53 30 7 10 1,325 0 60 40 679 0 0 0 43 29 26 1,082 3 O Lakes (Total Acres = 151,173)^c **Total Acres** 88 Assessed 6 2 28,103 1 2 92 6 10,479 0 0 37 24 26 19.566 11 3 Estuaries (Total Square Miles = 2,728)d **Total Square** Miles Assessed 47 36 17 1 0 135 100 46 0 0 0 0 51 42 182 7 0 0

Note: Figures may not add to 100% due to rounding.